

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Examiner : Caitlin Anne Fogarty
Serial No. : 10/583,220 Docket No.: JFE-06-1129
Filed : June 16, 2006
Inventors : Atsushi Miyazaki Confirmation No.: 7655
: Yasushi Kato
: Osamu Furukimi
Title : FERRITIC Cr-CONTAINED STEEL

DECLARATION OF YASUSHI KATO

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

I, Yasushi Kato, am a citizen of Japan with an address at c/o JFE Steel Corporation, Steel Research Laboratories, Stainless Steel Research Department, 2-2-3 Uchisaiwaicho, Chiyodaku, Tokyo, 100-0011, Japan.

I hereby declare as follows:

April 1979	Entered Department of Iron & Steel Metallurgy, School of Engineering Kyushu University
March 1984	Graduated from the same. Received Bachelor of Engineering.
April 1984	Proceeded to Master's Program in Engineering Research, Kyushu University (Majored in Iron & Steel Metallurgy)
March 1986	Graduated from the same. Received Master's degree of Engineering.
April 1986	Entered Stainless Steel Research Laboratories, Research Laboratories, Kawasaki Steel Corporation
July 1992	Sent to study at Institute for Materials Research, Tohoku University
October 1994	Returned to Stainless Steel Research Laboratories, Research Laboratories, Kawasaki Steel Corporation
April 2003	Stainless Steel Research Laboratories, Steel Research Laboratories, JFE Steel Corporation (Merged company of Kawasaki Steel Corporation and NKK Corporation)
October 2007	Studied as a transfer student (last half term of a Doctor course for working people) of Doctor's degree of Material Process and Engineering of Graduate School of Kyushu University

April 2010	General Manager of Stainless Steel Research Laboratories, JFE Steel Corporation
September 2010	Finished Doctor's degree of Material Process and Engineering of Graduate School of Kyushu University. Received Doctor's degree of Engineering.
To present	(Working as mentioned above as the General Manager of Stainless Steel Research Laboratories, JFE Steel Corporation)

Attached to this Declaration are Figs. A, B and C. Those Figs. A-C are exactly the same as Figs. A-C attached to the Response that was filed in the United States Patent and Trademark Office on August 25, 2010.

I personally prepared those figures. Fig. A comprises Fig. 1 taken from the above-identified application to which data of examples in the specification was further added. Also, an example from US Patent No. 5,626,694 to Kawabata was taken from that publication. That example is example No. 86 from Table 4.

Fig. B is similar to Fig. A and includes data of precipitated W at $\leq 0.01\%$ and shows that when the amount of added W is 2% or more, the average thermal expansion coefficient obtained is less than 12.6×10^{-6} at a temperature between 20°C and 800°C. Fig. C is also similar to Fig. A and includes data wherein W is equal to about 3% and shows that when the amount of precipitated W is 0.1% or less, the obtained average thermal expansion coefficient is less than 12.6×10^{-6} at a temperature between 20°C and 800°C.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: March 7, 2011

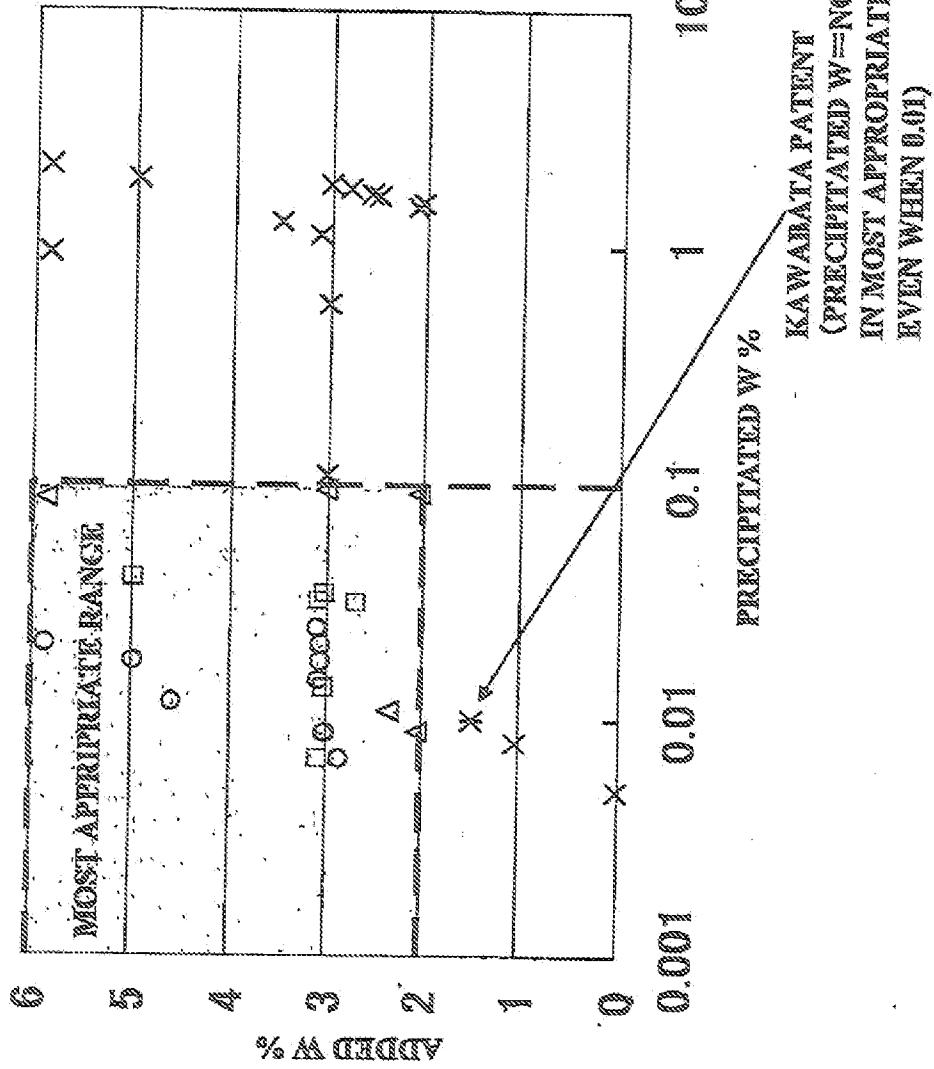

Yasushi Kato, co-inventor

FOR DEMONSTRATION PURPOSES

ADDED W AND
PRECIPITATED W

ATTACHED FIG. A

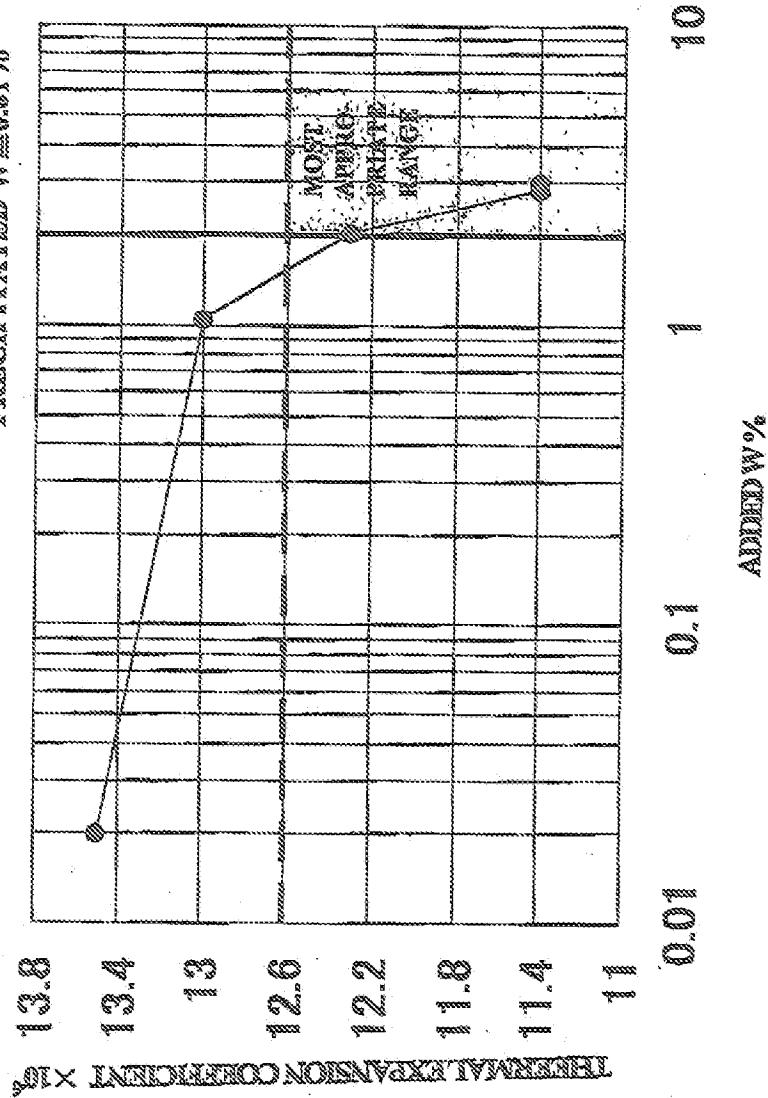
O : RANK A, LESS THAN 11.7
□ : RANK B, 11.7 TO LESS THAN 12.1
△ : RANK C, 12.1 TO LESS THAN 12.4
X : RANK D, 12.6 OR MORE
* : KAWABATA PATENT



FOR DEMONSTRATION PURPOSES

ATTACHED FIG. B

ADDED W



FOR DEMONSTRATION PURPOSES

ATTACHED FIG. C.

PRINCIPALIZED W

